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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/017,384 513 7	12/18/2001	Akihisa Hongo	2001-1846	6855		
WENDEROTH, LIND & PONACK, L.L.P. 2033 K STREET N. W. SUITE 800			EXAMINER  VALENTINE, DONALD R			
WASHINGTO	N, DC 20006-1021		ART UNIT	PAPER NUMBER		
			1742			
			DATE MAILED: 09/03/2003	DATE MAILED: 09/03/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary		Application	No.		Applicant(s)	1		
		10/017,384			HONGO ET AL	Ť		
		Examiner			Art Unit	<del></del>		
		Donald R. Va	alentine		1742			
	he MAILING DATE of this communication app	ears on the c	over sheet	with the co	orrespondence a	nddress		
Period for R	• •	VIC CET TO	EVDIDE 1	NACNITU/S	EDOM			
THE MAI  - Extensions after SIX (  - If the peric  - If NO peric  - Failure to  - Any reply (	TENED STATUTORY PERIOD FOR REPLY LING DATE OF THIS COMMUNICATION. Is of time may be available under the provisions of 37 CFR 1.13 (6) MONTHS from the mailing date of this communication. It is defer reply specified above is less than thirty (30) days, a reply off or reply is specified above, the maximum statutory period we reply within the set or extended period for reply will, by statute, received by the Office later than three months after the mailing tent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, y within the statutor vill apply and will e , cause the applica	however, may ry minimum of the xpire SIX (6) Montion to become	a reply be time hirty (30) days ONTHS from the ABANDONED	ely filed will be considered tim he mailing date of this (35 U.S.C. § 133).			
1)□ Re	esponsive to communication(s) filed on							
2a) <b>□ T</b> h	nis action is <b>FINAL</b> . 2b)⊠ Th	is action is no	on-final.					
clo	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition								
•	nim(s) <u>1-31</u> is/are pending in the application							
	Of the above claim(s) is/are withdraw	wn from cons	ideration.					
·	im(s) <u>16, 29-31</u> is/are allowed.							
6)⊠ Cla	∑ Claim(s) <u>2-6,8-12 and 17-28</u> is/are rejected.							
· <u></u>	nim(s) <u>13-15</u> is/are objected to.							
8)☐ Cla Application	nim(s) are subject to restriction and/o  Papers	r election req	uirement.					
9) <b>□</b> The	specification is objected to by the Examine	r.						
•	drawing(s) filed on 18 December 2001 is/a		· ·	-	-			
	pplicant may not request that any objection to the							
•	proposed drawing correction filed on	- '	-	disapprov	ed by the Exam	iner.		
	approved, corrected drawings are required in rep	-	e action.					
·	oath or declaration is objected to by the Ex	aminer.						
Priority und	er 35 U.S.C. §§ 119 and 120							
•	knowledgment is made of a claim for foreigr	n priority unde	er 35 U.S.C	C: § 119(a)	-(d) or (f).			
a)∐ A	III b)☐ Some * c)☐ None of:							
1.[	_							
2.	- ' , ' ,	s have been i	received in	Application	on No			
3.[ * See	Copies of the certified copies of the prior application from the International Buthe attached detailed Office action for a list	reau (PCT Ri	ule 17.2(a)	).		al Stage		
	owledgment is made of a claim for domesti		•			al application).		
	The translation of the foreign language pro							
Attachment(s)		, - <i>,</i>	2.3.	JU := 5				
1) Notice of l	References Cited (PTO-892) Draftsperson's Patent Drawing Review (PTO-948) on Disclosure Statement(s) (PTO-1449) Paper No(s) <u>4</u>	5)			(PTO-413) Paper N atent Application (F			

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#### **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1, 4 and 7 are rejected under 35 U.S.C. 102(b) as being anticipated by McCary et al.

The reference shows apparatus for plating an immersed substrate surface with pits comprising a first bath different from a second bath. See Figure 2; col. 1, lines 34-40; col. 2, lines 20-54; and column 3, lines 16-40. The reference does not recite "fine pits", however, because of the wire size recited in the reference, the pits would be considered inherently "fine".

# Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

  The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claims 2-6, 8-12, and 17-28 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

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Claim 17, lacks antecedent basis for the term "barrier layer". Claims 2-6, 8-21, 23-28 do not further limit the claims from which they depend or are a recitation of process limitations in apparatus claims. The solution in the baths and substrate are not considered a part of the apparatus structure.

### Allowable Subject Matter

- 5. Claims 16 and 29-31 are allowed.
- 6. Claims 13-15 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

#### Conclusion

- 7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Toledo, Fromson, Nakao, and Furuya show apparatus with multiple baths for treating substrates.
- 8. The following is a statement of reasons for the indication of allowable subject matter: The references of record do not suggest or show apparatus including a lplating bath, a first plating solution supply, a second plating solution supply and a switch for switching the supply of the first plating solution from the first plating supply an said second plating solution from the second solution supply to the plating bath on and off.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Donald R. Valentine whose telephone number is 703-308-3327. The examiner can normally be reached on Monday-Friday 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on 703-308-1146. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

Donald R. Valentine Primary Examiner Art Unit 1742

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